

**THERMAL TOLERANT MANNANASE FROM ACIDOTHERMUS
CELLULOLYTICUS**

Abstract of the Disclosure

5

The invention provides a thermal tolerant mannanase that is a member of the glycoside hydrolase family. The invention further discloses this mannanase as ManA. ManA has been isolated and characterized from *Acidothermus cellulolyticus*. The invention further provides recombinant forms of the identified ManA. Methods of making ManA polypeptides, including fusions,
10 variants, and derivatives, are also disclosed. Methods of using mannanase A, including for the processing of food and for use in food stuffs as bulking agents and the like, are also disclosed.

15